

**Technical Standard: Carpentry**

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This program will teach students to perform to national construction industry standards. The students will be able to use tools and equipment, be familiar with construction site safety issues and be familiar with career opportunities in the construction industry. The student will be familiar with the following systems: footings and foundations, floor and sill framing, wall and ceiling framing, roof framing and finish, exterior wall and trim, windows and doors, insulation, drywall, interior wall and ceiling, and cabinet installation and built-ins. Leadership and professionalism will be provided through Skills USA-VICA and the Professional Development Program. The students will:

**Indicator A:**

Identify opportunities in the construction field and demonstrate basic construction techniques.

**Indicator B:**

Apply concepts from mathematics, science and communications in the context of residential carpentry.

**Indicator C:**

Demonstrate the core competencies in construction safety and the efficient use of tools and machines, materials, processes and applications.

**Indicator D:**

Demonstrate knowledge and understanding of site layout and foundations.

**Indicator E:**

Apply the skills and competencies in the area of floor and sill framing, wall and ceiling framing and roof framing.

**Indicator F:**

Demonstrate competency in the areas of cornice and gable ends, roof finishes, exterior wall and trim.

**Indicator G:**

Properly install windows and doors.

**Indicator H:**

Demonstrate knowledge and skill in installing insulation, drywall, interior walls and ceilings, interior doors and trim.

**Indicator I:**

Properly install cabinets and special built-ins.

**Indicator J:**

Develop workplace readiness and employability skills necessary to work with others, and reach an employable exit point.

**Indicator K:**

Develop personal and professional skills through involvement with the SkillsUSA-VICA student organization activities.

**Indicator L:**

Demonstrate employability and social skills relevant to careers.